

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Т
PO039101	MES002- VC	1	1		R2.500	17-4 SS H900 Round Bar 2.500™:: M174PH- H900R0.500 MATERIAL: 17- 4 PH COND. H900 AS PER AMS 5643				6	3/14/2018	6		\$053355	Stock	3/21/2018	\$ 173.95 / ft	0		\$1.0
		2			R0.375	17-4 SS H900 Round Bar 0.375"": M174PH- H900R0.500 MATERIAL: 17- 4 PH COND. H900 AS PER AMS 5643				12		12		\$053356	Stock	3/21/2018	\$ 19.95 / ft	0		\$2
									Total:	18	-	18							_	\$98

Plex 3/21/2018 8:37 AM Dart Dubois Pascal

Shipping Order

05/03/2018

METAUX SOLUTIONS INC £625 BOUL JACQUES CARTIER EST

LONGUEUIL, QUEBEC

J4N 1L7

Tel.: 450 641-3330

Customer: 6323336

DART AEROSPACE LTD 1270, ABERDEEN STREET HAWKESBURY, ONTARIO K6A 1K7 Order .

: 133044

Reference Bid

: po039101 : 26136

Ship

: PICK UP / PICK UP

Ship To

Same

Tel.: 1613632-3336

Gene Iva. Description Otv Otv. Deliver B/O Qty ******* FACTURER E-MAIL. ******** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N ****** FACTURER E-MAIL ****** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N MAR 2 1 2018 ******* FACTURER E-MAIL ******** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N DAS 50212174 17-4 PH STAIN ROU 2.500" DIA COND. H900 1 % 72" ******* htt: 3511 1238174 17-4PH ROU 375 DIA COND. H900 2 X 72" ********** ht 673237

ship journey collect

jo

Hef. :

Package No :

Merchandise Received:

Shipping :



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO039101

Tel (613) 632-5200

Supplier:

MES002-VC

Metaux Solutions

2625 boul Jacques-Cartiler Est

Longueuil QC

J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044

PO No:

PO039101

PO Date:

2/23/18 3/14/18

Due Date: **Purchase Order**

Revision: **Revision Date:**

Ship-To Contact: Lavoie, ChantalPhone:

clavoie@dartaero.com

FEB 2 3 2018

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: bid 26136

It			

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M17-4- H900- R2.500		17-4 SS H900 Round Bar 2.500" :: M174PH-H900R0.500 MATERIAL: 17-4 PH COND. H900 AS PER AMS 5643	Firmed	3/14/18	6 ft	6 of th) 6 ft	\$173.95/ft MAR 2	\$1,043.70 2018
2	M17-4- H900- R0.375		17-4 SS H900 Round Bar 0.375" : M174PH-H900R0.500 MATERIAL: 17-4 PH COND. H900 AS PER AMS 5643	Firmed	3/14/18	12 ft	12%	12 ft	\$19.95/ft MAR 2 1	\$239.40 2018
								(Grand Total:	\$1,283.10

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/23/18 10:57 AM dart.lavoie.chantal

DAS 9-89

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17	- 4/ MAR	-H- 21	900) 2018	<u>-Ro.3</u>	75	PO / BATCI	H NO. 039	101/505333
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Je 13 12	51		_	THIC	CKNESS ORDE CKNESS RECE ET SIZE ORDE ET SIZE RECE	RED:	375 1/4
DESCRIPTION		CR neck				COMMEN		7
SURFACE DAMAGE CORRECT FINISH	¥ Ý	N N N						
CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING CORRECT THICKNESS	Y (Y)	Z Z Z	A51	m A	1364	/		
PHOTO REQUIRED CORRECT REF # TO LINK CERT	(A)	N N	Hea	HH C	732	237		
CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(S)	Z3 Z3 Z3						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y							
CUT SAMPLE PIECE				AND PR			SS CHECK.	
YPE OF MATERIAL IZE OF TEST SAMPLE ARDNESS / DUROMETER READIN			HRC		RB	DUR A	DUR D	WEBSTER
AND NEGOT DONOMETER READIN		sters	located	in the Qua	lity Offic	<u>e</u>		

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:)AS	SIGNED OFF BY:
DATE: 9	₋₈ MAR 2 1 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 17-4 PH / 817400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE SPECIFICATION PART NUMBER: AMS 5643 OR ASTM A564

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MATERIAL CONDITION TABLE:

CODE

CONDITION

M17-4- HHHHH- R XXXX WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)

(OMITTED) CONDA H900 H925 H1025 H1100 H1150 H925 H1025 H1075 H1100 H1150 CONDITION A (SOLUTION TREATED) NONE SPECIFIED (CONDITION A NOT ACCEPTABLE) H900 MIN YIELD TENSILE STRENGTH (KSI) 170 155 145 115 105 100 MIN ULTIMATE TENSILE STRENGTH (KSI) 190 170 145 145 150

NOTES: MATERIAL IN 1990 AND 1925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

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EXAMPLES:

PART
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
2.500" DIAMETER BAR H900 CONDITION
3.250" DIAMETER BAR H9025 CONDITION
0.750" DIAMETER BAR A CONDITION

PART NUMBER M17-4-R3.000 M17-4-H900-R2.500 M17-4-H1025-R3.250 M17-4-CONDA-R0.750

A

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E[N17-728 10 2017 -10- 31 DEL HAS 771

APPROVED

17.09.14

NOT YOUR USE

CHECKED MFG. APPR. APPROVED DATE DRAWN DESIGN DE APPR. 00 Q N R 9 8 8 17-4 SS ROUND BAR M17-4-R TITLE DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA VS NO

ADDED MATERIAL CONDITION (CIR17-107)

REFORMAT DWG, SI 7400/TYPE 539 ADDED TO
PURCHASE MATERIAL (ZN D8-1), ADD A564 SPEC (C8-1),
REF PAR 00-020A

NEW ISSUE

17.09.14

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10.05.20

REV. C

SHEET 1 OF

SCALE STN

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INFORMATION COMPONING, AND IS SUPPLED ON THE EXPRESS COMMISSION THAT IS BY MYSTATIS FROM THE PERSON WITHOUT WHITE PROPERTY AND THE PERSON WITHOUT WHITE PROPERTY AND THE PERSON WITHOUT WHITE PROPERTY AND THE PERSON WITHOUT THE PERSON WITHOU

CERTIFICATE OF TEST **CERTIFICAT D'ESAIS**

Page 01 of 01

Certification Date 2-MAR-2018

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

44265-J

PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number T376651

510503

SOLD TO:

METAUX SOLUTIONS INC.

SHIP TO: EXPÉDIÉ À:

METAUX SOLUTIONS

(RIVE-SUD)

VENDU À:

2625 BOUL JACQUES CARTIER EST

LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST

LONGUEUIL QC J4N 1

Description: 3/8 RD X 127 SOL ANN CF BAR

ITEM: 510503

ASTM A564 Line Total: 2 LB

Specifications:

AMS 5643 T ASTM F899 12 ASTM A564 T630 13

EN 10204 3,1

ASME SA564 T630 4

AMS 2303 F

CHEMICAL ANALYSIS

~ ~ ~ ~ ~ ~ ~ ~ ~							
	CB		CU	MN	MO	NI	P
0.015	0.25	15.65	3.35	0.7800	0.26	4.50	0.026
	SI		CBTA				
0.026	0 26	0 001	0 2510				

RCPT: R314518

COUNTRY OF ORIGIN : ITALY

MECHANICAL PROPERTIES

VID CED III E EDIT COTO	
YLD STR ULT TEN %ELONG %RED	HARDNESS
DESCRIPTION KSI KSI IN 02 IN IN AREA	RC
COND A 147.0 150.0 16.1 63.3	36
DEV: H900 L 197.0 207.0 12.5 56.1	45

MACRO: OK MICRO1: OK

> The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. Ales informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel convert par ce rapport rencontre les spécifications décrites ci-

JOANNE DESPRES

came Leapres

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

METCOR INC.

560 BOUL ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498 Télécopieur / Fax production: 450-491-6454 Certificat de Conformit
Certificate of Compliance

BON DE TRAVAIL CHARGEMEI
order load

325921 1

CLIENT / customer 780
METAUX SOLUTIONS
2625 BOUL. JACQUES-CARTIER EST
LONGUEUIL QC J48 666

APPROUVÉ par / Approved by:

LIVRÉ À / shipped to:
METAUX SOLUTIONS
2625 BOUL, JACQUES-CARTIER EST
LONGUEUIL QC J48 6G6

COMMANDE custom		CLASSIFICATION PIECE part classification	MATÉRIEL material	MAÎTRE D'OEUVRE prime contractor	PROGRAM	
4420	36	N/A	17-7PH			
AGE HARDEN			FIONS DU PROCI sing specifications	ÉDÉ		
CONDITION H						
XIGENCE / rec		PÉCIFICATIONS / specified	TESTS EXÉCUTÉS	/performed RÉSULTATS	DE TESTS / result	
HARDNESS	40	1-47 HRC	3	43 - 45 HR	3	
QUANTITÉ quantity 3	POIDS weight 105	DESCRIPTION DES PIÈ parts description BARRES (1) 2.5 X72" (2) 0.375 x 72"	CES			
<u> </u>		COMMENT	AIRES Comment	s /	- // 11	

Pierre Piché

Chief Inspector

APPROUVE

DATE: 2018-03-14

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: // DATE:	17-4-H900-R2500 MAR 2 1 2018	PO / BATCH NO.: 039/01/505
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Ves 6'	THICKNESS ORDERED: 2.500 THICKNESS RECEIVED: 2.500 SHEET SIZE ORDERED: 1//4 SHEET SIZE RECEIVED: 1//4
DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	YN	

DESCRIPTION		cR neck /N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(8)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Astm A564
CORRECT THICKNESS	(Y)	N	1 2 1
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	(1)	N	Heat # 3512
CORRECT MATERIAL IDENTFICATION	(X)	N	THE STATE OF THE S
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	A	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:
DATE: 9-89 MAR 2 1 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH, PER TABLE **(**)

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SPECIFICATION: PART NUMBER:

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AMS 5643 OR ASTM A564

M17-4- HHHHH- R XXXXX WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)

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MATERIAL CONDITION TABLE:

ш 📆		T	T	T	T	T	T	T
MIN ULTIMATE TENSILE STRENGTH (XSI)	150	190	170	188	445	140	135	3
TENSILE STRENGTH (KSI)	100	170	155	145	125	115	105	
CONDITION	(CONDITION A NOT ACCEPTABLE)	H900	H925	H1025	H1075	H1100	H1150	(SOLUTION TREATED)
CODE	(OMITTED)	H900	H925	H1025	H1075	H1100	H1150	CONDA

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

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CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

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EXAMPLES:

PART NUMBER M17-4-R4.000 M17-4-H900-R2.500 M17-4-H1025-R3.250 M17-4-CONDA-R0.750 PART 4.00°D DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI 2.50°D DIAMETER BAR H900 CONDITION 3.250°D DIAMETER BAR H1025 CONDITION 0.750°D DIAMETER BAR A CONDITION

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DELEASED 11 2017-10-31 6

SCALE NTS REV. C SHEET 1 OF 1 05.03.16 DATE DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA COPYRIGHT © 2005 BY DART AEROSPACE LTD

INS DOCUMENT IS NO DOF CAPIM, NO IS SUPPLED ON THE SAMES COMMIT

HOT TORE USED FOR ANY PURPOSE ON CIPPED ON COMMANDERS YOUNG INCOME. CP 40: 17-4 SS ROUND BAR ADDED MATERIAL CONDITION (CIR17-107)
REFORMAT DWG, S17400TYPE 630 ADDED TO
REF P AR 08-020A
NEW ISSUE DRAWING NO. TITLE 8 8 8 W CP 17.09.14 MFG. APPR. APPROVED CHECKED DE APPR. DESIGN DRAWN A REV. **APPROVED**

17.09.14 10.05.20

Q.

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CERTIFICATE OF TEST CERTIFICAT D'ESAIS

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT Page 01 of 02

Certification Date 2-MAR-2018

Invoice Number S704031

44265-J

PART NUMBER/NUMÉRO DE PIÈCE

510547

SOLD TO: VENDU À:

METAUX SOLUTIONS INC.

SHIP TO: EXPÉDIÉ À:

METAUX SOLUTIONS

ASTM A564

(RIVE-SUD)

2625 BOUL JACQUES CARTIER EST

LONGUEUIL OC J4N 1L7 2625 BOUL JACQUES CARTIER EST

LONGUEUIL OC J4N 1

Description:

17-4 SOL ANN CF BAR 911

72.0")

Line Total: 100.26 LB

RD SKC 351L

ITEM: 510547

Specifications:

ASTM A564 T630 13

ASME SA564 T630 07

AMS 5643 ASTM F899 12B

ASTM A388 S1

CHEMICAL ANALYSIS

C CB CO CR CU MN MO N 0.0381 0.245 0.058 15.3205 3.181 0.77 0.0255 0.0342 NI S SI TA TI CBTA 4.213 0.017 0.022 0.519 0.005 0.002 0.247

RCPT: R212745

DEV: H900 L

COUNTRY OF ORIGIN : USA

49.57

_______ MECHANICAL PROPERTIES

12.93

YLD STR ULT TEN %ELONG %RED HARDNESS DESCRIPTION IN AREA BHN COND A YLD STR ULT TEN %ELONG %RED HARDNESS DESCRIPTION KSI KSI IN 02 IN IN AREA

201.8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

181.11

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

RC

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JOANNE DESPRES

same prespect

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAIS

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT Page 02 of 02

Certification Date 2-MAR-2018

Invoice Number S704031

44265-J

PART NUMBER/NUMÉRO DE PIÈCE

510547

SOLD TO: VENDU À:

45 th.

METAUX SOLUTIONS INC.

SHIP TO:

EXPÉDIÉ À:

2625 BOUL JACOUES CARTIER EST

LONGUEUIL OC J4N 1L7

METAUX SOLUTIONS

(RIVE-SUD)

2625 BOUL JACQUES CARTIER EST

LONGUEUIL OC J4N 1

Description:

HEAT: 351L

17-4 SOL ANN CF BAR

2-1/2 RD S/C 6'0" (72.0")

ITEM: 510547

ASTM A564

Line Total: 100.26 LB

MACRO: OK MICRO1: OK

COMMENTS

melted and mfg in usa reduction ratio 11.8:1

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-

JOANNE DESPRES

same heesprei

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ